

AOSIF Cummins Series

Product introduction

AOSiF
POWER GENERATOR



Model AC2750-II Generator set

Standby 2500KVA/2000KW



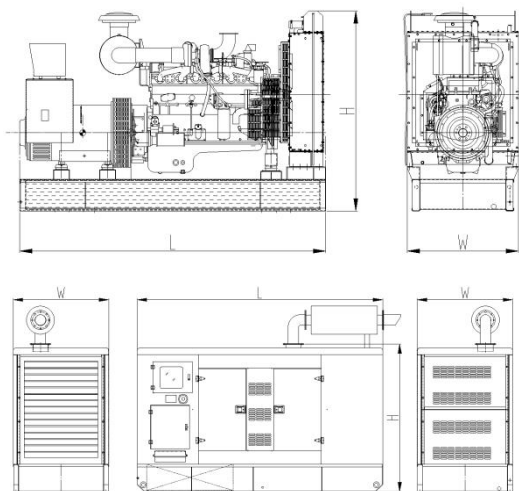
XIAMEN AOSIF ENGINEERING LTD.

General Performance Data

Prime Power	2500KVA/2000KW	Engine	Brand	Cummins
Stand by Power	2750KVA/2200KW		Model	QSK78-G18
Frequency/Speed	50Hz/1500rpm	Control module	Deepsea 7320	
Rated Power Factor(cosφ)	0.8	Rated Current	3609A	
Standard Voltage	230V/400V	Capacity of Breaker	4000A	
Phases	3	Starting Voltage	DC24V	

Fuel consumption

Rated output	Fuel consumption rate	
100%Standby	0.193 kg/kW·h	542 L/h
100%Prime	0.195 kg/kW·h	494 L/h
75%Prime	0.202 kg/kW·h	383 L/h
50%Prime	0.216 kg/kW·h	273 L/h
25%Prime	0.238 kg/kW·h	151 L/h



Standards followed

ISO9001	ISO14001
ISO8528	ISO12100
ISO13849	EN12601
GB12786	GB/T2820
IEC60034	IEC60204
CE	RETIE

Dimensions and Weights

Type	Open	Silent
Length(mm)	6900	
Width(mm)	2750	
Height(mm)	3550	
Weight(kg)	19864	
External daily fuel tank volume (L)		

Engine specification

Basic parameter

Manufacturer	Cummins
Model	QSK78-G18
No. of cylinder	18
Type	4-cycle, V-type
Prime Power	2151kWm/2884BHP
Standby Power	2383kWm/3195BHP
Induction system	Turbocharged and Low Temperature Aftercooled
Fuel System	Cummins HPI-PT
Bore x Stroke	170 mm × 190 mm
Displacement	77.6 L
Compression ratio	15.5:1
Oil Capacity(Low - High)	465.6 L
Coolant Capacity(Engine only)	167 L
Cranking Motor Voltage	DC24V

Fuel System

Max Fuel Supply Restriction (Clean/Dirty Filter)	16.9/30.5 kPa
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Lubrication system

Oil Pressure	
---Minimum Idle Speed	206.8 kPa
---Governed Speed	414-482.6 kPa
Max. allowable oil temperature	121°C
Oil capacity - Low/High	352-412.6 L
Total system capacity	465.6 L

Air induction system

Max Intake Air Restriction	
---With Normal Duty Air Cleaner and Clean Filter Element	3.7kPa
---With Dirty Filter Element	6.2kPa

Exhaust system

Max Back Pressure at Standby Power	6.8 kPa
Exhaust Gas Temperature (Standby)	423°C

Cooling system

Coolant Capacity-Engine	167 L
Max Coolant Friction Head External to Engine	48.3 kPa
Engine Water Flow @2.5psi Friction Head	1984 L/min
Engine Water Flow @Max Friction Head	1893 L/min
Minimum Pressure Cap Rating at Sea Level	75.8 kPa
Max Top Tank Temperature (Standby/Prime)	104°C/100°C
Thermostat (Modulating) Range	82-93°C

Electric system

System Voltage	24V
Min Recommended Battery Capacity @-18°C	2200 CCA
Max Starting Circuit Resistance	0.002 ohm
Min Ambient Temp for Unaided Cold Start	-12°C

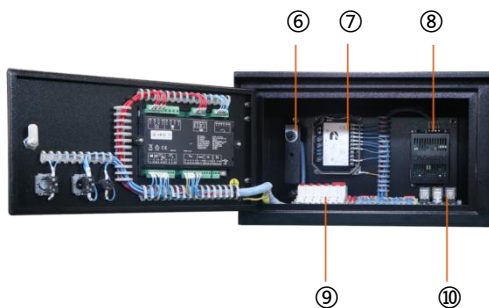
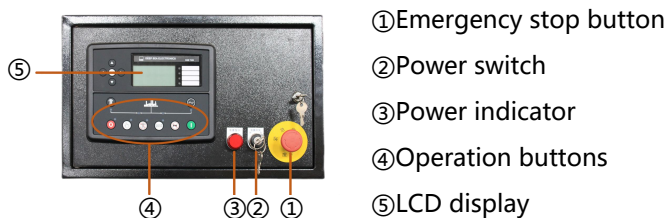
Alternator specification

Phases	3	Coating	Vacuum impregnation
Poles	4	Insulation class	H
Power factor(cosφ)	0.8	Protection	IP23
Winding connection	Star	Excitation system	Self-excited
Winding pitch	2/3	Bearing	Single Bearing
Voltage regulator type	AVR	Coupling	Flexible disc

Control system Introduction

Deepsea 7320 Auto start & auto mains failure control panel

Deepsea 7320 is an auto mains failure controller for single generator, it can monitor and protect the generator working all the time. it has a LCD display which clearly shows the status of the engine. this controller include seven inputs and six outputs. This controller can also be programmed using the front panel or by using DSE configuration Suite PC software



Key Features:

- Auto start/stop, load transfer and alarming of generator
- Remote start on or off load
- With hierarchical loading function
- Multiple start/stop cycles can be preset
- 3 phase generator and mains voltage monitoring.
- Generator/load power detection(kW, kVA, kVA_r PF)
- Overload protection (kW)
- Load current monitoring and protection
- Engine speed protection
- Engine pre-heat
- Engine start idle & stop idle
- Battery voltage monitoring
- Start under the low battery
- 8 configurable outputs
- 8 configurable input
- Integral PLC editor
- Tler 4 CAN engine support
- Data logging facility
- DSE2130,DSE2157,DSE2548 expansion module can be connected
- Support 0-10V or 4-20mA oil pressure sensor

Main features:

- Multi language display
- Mains failure self starting
- The running time of the engine can be recorded to facilitate the maintenance and repair of the unit
- User-friendly set-up and button layout
- LCD display can display multiple parameters at the same time
- Support EFI engine
- IP65 rating (with optional gasket)
- PC and front panel configuration
- 100 event records
- Data recording and trend analysis

Protection:

- Two sets of protection parameters can be preset
- Normal alarm, electrical trip and shutdown alarm can be set to effectively monitor the engine speed,oil pressure, water temperature and oil level, as well as the frequency, voltage, current and power of the alternator, for complete engine/alternator protection
- Low Oil Pressure
- High water Temperature
- High voltage and low voltage
- Overspeed
- Emergency stop
- Fail to start

AOSIF Soundproof Canopy Introduction:

Standard Type:

- The arc angle structure makes the appearance beautiful and not easy to bump
- High quality coating powder, chemical surface treatment & 100-120um coating thickness greatly improving the anti-corrosion and anti rust level
- Stainless steel hinge & door lock are beautiful and anti-rust
- 2.0mm cold rolled plate used makes the body more solid
- The bottom forklift and loading port design enables easy loading and unloading
- The drainage outlets are all connected to the outside for easy operation
- The sufficient air in & out design ensure long-term and stable operation of the unit
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- High density foam used inside effectively reduces noise
- Ceiling Lighting is equipped for easy operation
- The built-in base fuel tank with fuel filler set on the shell facilitates refueling
- Models above medium power range are designed with top hoisting mechanism to facilitate transportation of the unit.

Imitated container type:

- The shell is made of 3.0mm hot rolled steel plate so as to withstand the lifting capacity of 15-ton without deformation
- The switch cabinet and control panel are respectively set on both sides of the shell for easy maintenance & operation
- The shell looks similar to standard container, and can be loaded into 40HQ container for transportation, which is convenient for shipping
- The lifting eye holes are designed on the top same as the standard container for easy handling
- High density foam used inside effectively reduces noise
- The built-in base fuel tank with fuel filler set on the shell facilitates refueling
- Double emergency stop button set on different surfaces enables quick response to operation requirements
- The shell base is independent from the unit with 3mm thick checkered steel plate floor, which is beautiful & antiskid, and is convenient for overhaul & maintenance of the unit
- The door handle, lock and hinge are all made of stainless steel to avoid rusting
- The air out louver made of the mesh plate with podwer coating and pasted with high-density glass fiber is beautiful and not easy to rust, and can further reduce the noise
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- The sufficient air in & out design ensure long-term and stable operation of the unit
- The drainage outlets are all connected to the outside for easy operation
- Ceiling Lighting is equipped for easy operation

Standard container type:

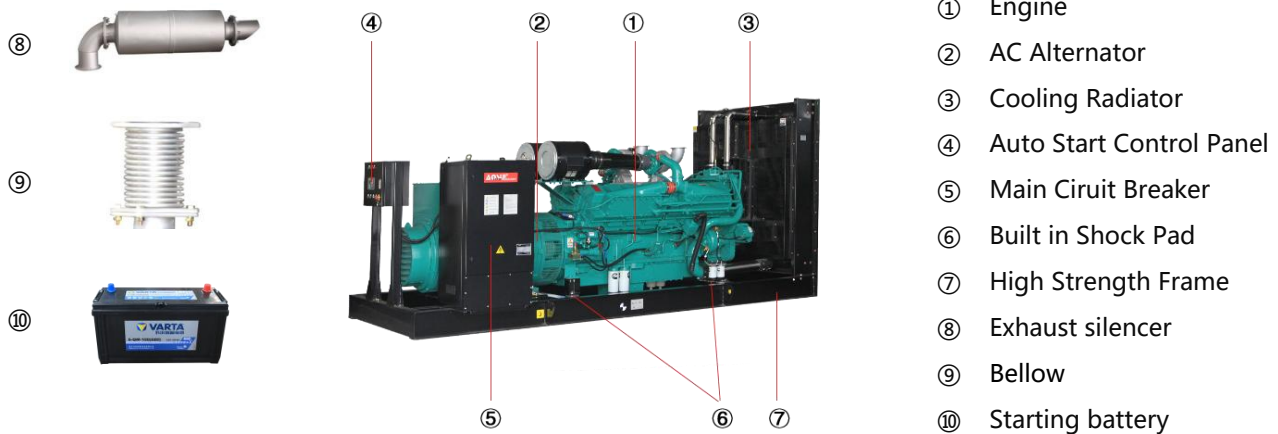
- Can be shipped on board directly during transportation
- The mesh plate with podwer coating and inner pasted with high-density glass fiber is installed inside the shell, which is beautiful and anti-rust, and can further reduce the noise
- 3mm thick checkered steel plate floor is beautiful & antiskid, and is convenient for overhaul & maintenance of the unit
- Double emergency stop button set on different surfaces enables quick response to operation requirements
- The independent daily fuel tank can be designed to put inside to meet requirements of continuous operation
- The fuel filler is set on the shell to facilitate refueling
- The switch cabinet and control panel are respectively set on both sides of the shell for easy maintenance & operation
- The air in & out louver made of the mesh plate with podwer coating and pasted with high-density glass fiber is beautiful and not easy to rust, and can further reduce the noise
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- The sufficient air in & out design ensure long-term and stable operation of the unit
- The drainage outlets are all connected to the outside for easy operation
- Ceiling Lighting is equipped for easy operation



Decomposition diagram introduction of AOSIF Typical Canopy



Standard supply scope:



Optional supply scope:

Genset	Engine	Alternator	Control system
<ul style="list-style-type: none"> • Tool box • Base fuel tank • External daily fuel tank • Trailer 	<ul style="list-style-type: none"> • Fuel heater • Fuel and water separator 	<ul style="list-style-type: none"> • Temp. detector for winding and bearing • PMG • Antirust, mildew and salt fog treatment • Anti condensation heater 	<ul style="list-style-type: none"> • ATS • Synchronization System • Adjustable earth relay
Breaker	Fuel system	Lub-oil system	Cooling system
<ul style="list-style-type: none"> • ABB • Schneider 	<ul style="list-style-type: none"> • Low fuel level alarm • Auto Fuel Pump • T Valve 	<ul style="list-style-type: none"> • Lub oil heater • Temp.-sensor • Oil drain Pump 	<ul style="list-style-type: none"> • Elec.coolant Heater

Our Promises

- AOSIF Engineering provides a full line of brand new and high quality products.
- Each unit passes strictly loading test in factory before shipment.
- Quality Warranty is provided strictly in accordance with warranty terms.
- Three level service guarantee: Aosif dealers, Service outlets of engine/alternator manufacturers, Aosif service team.



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You may get more information from our official account.

Specifications are subject to change without notice.